INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/36649

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : G02C 7/04					
US CL: 351/160R According to International Patent Classification (IPC) or to both national classification and IPC					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 351/160R,159,160H,163,165,166,172,174,177,178					
U.U					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Documentation searched other than millimum documentation to the extent that saon about the continuent and the continuent to the continuent					
and the second terms used)					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
EAST					
C. DOCUMENTS CONSIDERED TO BE RELEVANT				Relevant to claim No.	
Category *	Citation of document, with indication, where appropriate, of the relevant passages			1-2, 8-9, 13, 19-20	
Х	US 6,325,509 (HODUR et ai) 04 December 2001 (04.12.2001), 0010111111111111111111111111111111				
Y	9, line 5. 3-7, 10-12, 14-18,				
•	22				
Y	GB 1,417,650 (SOHNGES) 10 December 1975 (10.12.1975), column 1, line 1-column 3,			3-7, 15-18	
	line 73. US 6,241,355 B1 (BARSKY) 05 June 2001 (05.06.2001), column 5, line 38-column 17, line			10-12, 14, 21-22	
Y	27				
A US 6,412,946 B1 (VIJFVINKEL et al) 02 July 2002 (02.07.2002), column 2, line 48-			1-22		
column 5, line 8.					
<u>,</u>					
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Further documents are listed in the continuation of Box C. See patent family annex.					
, —	Special categories of cited documents:	"T"	later document published after the intr	rnational filing date or priority	
* Special categories of cited documents.			date and not in conflict with the applic principle or theory underlying the inve	cation but cited to understand the	
"A" documen	it defining the general state of the art which is not considered to be ular relevance	***	document of particular relevance; the		
	pplication or patent published on or after the international filing date	-x-	considered novel or cannot be conside	red to involve an inventive step	
			when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		-Y-	document of particular relevance; the	claimed invention cannot be	
			considered to involve an inventive step when the doc combined with one or more other such documents. St		
"O" document retenting to all that anciosite, ase, extration of the			being obvious to a person skilled in th	nc art	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family					
priority date claimed				ch report	
Date of the actual completion of the international search		Date of 1	Date of mailing of the international search report		
21 March 2005 (21.03.2005)			10 JUN 2005		
Name and mailing address of the ISA/US		Authoriz	Authorized officer		
Mail Stop PCT, Attn: ISA/US		Jessica :	Jessica Stultz DEBORAH A. THOMAS		
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